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Declarations under Rule 4.17:

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[Continued on next page]

(54) Title: HUMAN IL-1 BETA ANTAGONISTS

(57) Abstract: The present invention encompasses isolated antibodies, or antigen-binding portions thereof, that specifically bind mature human IL-1 Beta. These antibodies, or antigen-binding portions thereof, generally exhibit high binding affinities (low k_{∞} ff values), reduced deamidation compared to the native antibody, and can be used to treat various diseases such as rheumatoid arthritis, or neuroinflammation.

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CLASSIFICATION OF SUBJECT MATTER PC 7 C07K16/24 C12N A. CLAS IPC 7

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C12N15/13 A61P37/00

C12N15/85 A61P25/00

C12N5/10

A61K39/395

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Polovent to all the
		Relevant to claim No.
X	WO 95/01997 A (GROSS MITCHELL STUART; HURLE MARK ROBERT (US); JACKSON JEFFREY RICHAR) 19 January 1995 (1995-01-19) page 3, line 5 - line 19 page 21, line 28 - line 19 claims; examples	1-35
Y	W0 01/64751 A (MEDIMMUNE INC) 7 September 2001 (2001-09-07) page 2, line 9 - page 3, line 3 page 15, line 12 - line 21 page 16, line 30 - page 17, line 26 page 18, line 11 - page 19, line 12 claims; examples -/	1-35

X	Further documents are listed in the	continuation of box C.
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Patent family members are listed in annex.

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Date of the actual completion of the international search

Date of mailing of the international search report 27 August 2004 03/09/2004

Name and mailing address of the ISA

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mational Application No T/US2004/000019

C./Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	T/US2004/000019
Category °		
	where appropriate, or the relevant passages	Relevant to claim No.
Y	JACKSON J R ET AL: "IN VITRO ANTIBODY MUTARATION IMPROVEMENT OF A HIGH AFFINITY, NEUTRALIZING ANTIBODY AGAINST IL-1BETA" JOURNAL OF IMMUNOLOGY, THE WILLIAMS AND WILKINS CO. BALTIMORE, US, vol. 154, no. 7, 1 April 1995 (1995-04-01), pages 3310-3319, XP000941315 ISSN: 0022-1767 the whole document	1-35
P,X	WO 03/010282 A (JIA AUDREY YUNHUA; KUHSTOSS STUART ALLEN (US); VASQUEZ MAXIMILIANO J) 6 February 2003 (2003-02-06) page 2, line 6 - page 3, line 14 page 8, line 18 - page 10, line 25 page 11, line 14 - page 12, line 15 page 23, line 14 - page 24, line 2 page 24, line 26 - page 26, line 16 claims; examples	1,2,24, 26,29-35
P, X	WO 03/073982 A (ROGERS DANISE PAIGE; HUANG LIHUA (US); LU JIRONG (US); LILLY CO ELI () 12 September 2003 (2003-09-12) page 1, line 20 - page 2, line 2 page 9, line 4 - line 36 claims; examples	1,2,24, 26,29-35

nternational application No.

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Box	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With Inve	n regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the daimed ntion, the international search was carried out on the basis of:
	a.	type of material a sequence listing table(s) related to the sequence listing
	b.	format of material X in written format X in computer readable form
	c.	time of filing/furnishing X contained in the international application as filed X filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search
2.	x	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addit	tional comments:

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
anscarchable (Conditional of Rem 2 of first sheet)
This International Search Report has not been established in respect of certain dalms under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 30, 31 and 34 are directed to a method of treatment of the human body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

rnational Application No T/US2004/000019

					1, 112201, 000015	
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WO 0164751	A	07-09-2001	AU CA EP JP WO US	4002001 2401652 1259547 2003525061 0164751 2002098189	A1 A2 T A2	12-09-2001 07-09-2001 27-11-2002 26-08-2003 07-09-2001 25-07-2002
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